THE TECH

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THE TECH

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For the benefit of students THE TECH will be pleased to answer all questions and obtain all possible information pertaining to any department of the College.

Contributions are requested from all undergraduates, alumni, and officers of instruction. No anonymous manuscript can be accepted.

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IN looking back over the year which has just passed there is, perhaps, no one event which stands out to distinguish undergraduate doings of 1903-4 from those of other years. The year has, however, been one of steady advance. The Tech Union has been confirmed as the best and most desirable place for student gatherings. The activity of the professional societies has been much greater than ever before. A Civic Club has been organized, and several new city and State clubs have sprung into a flourishing existence. In athletics we have seen basket ball come into considerable prominence during the winter months, and have seen a good Track Team developed under adverse conditions. Finally, Tech men have again shown their ability to produce an amateur theatrical performance second to none.

The year has been one in which a number of new questions have come up for decision and in which many progressive changes have begun. Foremost among these questions is that of affiliation with Harvard. Among the progressive movements may be mentioned the first out-of-town performance of the Show, and the beginning of work on the new athletic field in Brookline.

All these things apply very directly to undergraduate life. The reunion of the alumni of Technology, which is taking place this week, is something which also means much to every undergraduate. The Reunion indicates forcibly the loyalty and unity of purpose of all Technology men. May it meet with a success which will render such gatherings a frequent necessity to all Technology.

A RADICAL CHANGE.

THE policy of Technology has ever been one of expansion and progression. Starting some fifty years ago in two rooms, with fifteen students, she finds herself now with nine large buildings and plans already drawn for further extensions to accommodate the increasing number of those desiring the education she gives. Nor in student activities does she falter and lag behind.

The athletic trophies on the walls of the Union are being yearly increased in number; *Technique* stands pre-eminent as the best amateur college annual, and in every way Technology is steadily marching onward.

THE TECH has played little part in this advancement having been for years a compromise between a magazine and a newspaper. News items in THE TECH chronicle events which took place often nine days before publication, so that as a purveyor of news THE TECH has been deficient. The board of publication has realized this fact, and we are now going to obviate it. Hereafter THE TECH will not be issued in magazine form; it will be a four-page triweekly newspaper, appearing every Monday, Wednesday, and Friday morning, in time for distribution before nine o'clock. Events of the night before will be told of the next morning; urgent Faculty notices may be sent in any time before twelve o'clock midnight for publication the next day, and the columns of THE TECH will always be open for the exploitation of every affair connected with Technology. In short, you are now reading the last issue of THE TECH as a magazine. It will greet you next year as a live, four-page newspaper.

Athletic Field.

Work has been begun on the new athletic field in Brookline, by Mr. Joseph Driscoll, '96, and it is hoped that the track will be completed by Field Day. It is possible, provided a fence, grand stand, and bathing facilities are arranged, that the N. E. I. A. A. games will be held there next spring. The field consists of a quarter-mile track, enclosing a football field and baseball diamond, besides four tennis courts.

Faculty Vote.

"Voted, That the officers of the Institute Committee and the Second Year Class be notified that the arrangement for separate holidays, as adopted last month, to accommodate the plans of the Tech Show, be regarded by the Faculty as unsatisfactory, and in the future a similar plan will not be regarded with favor." The above was voted on May 18, 1904.

Class Day.

The Class Day exercises were held in Huntington Hall, Monday, June 6, at 2.30 o'clock. Owing to the presence of many alumni, in addition to the usual gathering, the hall was unusually well filled and the speakers were received with a very appreciative interest. The Class Day officers were: First Marshal, Currier Lang; Second Marshal, Louis Gustave Bouscaren, Jr.; Third Marshal, William Hosmer Eager; President of 1904, Walter Elbridge Hadley; Orator, Merton Leslie Emerson; Statistician, William Hosmer Eager; Presentation Orator, Louis Gustave Bouscaren, Jr.

President Hadley spoke in behalf of the Class as follows:

PRESIDENT HADLEY FOR THE CLASS:

Four years have just passed — years which were of special significance in the lives of some two hundred and seventy-five members of the Class of 1904, years of common work and common aims. As a fitting close to our undergraduate career, we have set apart this Class Day, to which we most cordially welcome you, our parents and friends.

Like the athlete who has successfully run his preliminaries, or the engineer who has completed the foundation for the structure, we pause before taking up the harder work, for a review of what has been accomplished, and a thought or two about the future.

In looking over the past we are most strongly reminded of our deep obligations to others. We appreciate the loving care and support of our parents — they have made our training here a possibility. We thank our friends for their unselfish interest — nothing in life can take the place of friendly sympathy. We acknowledge our indebtedness to the officers of the Institute, its Faculty, its Dean, its President — they have made the work here worth the doing.

The future is misty horizon, but we will go forth with the resolve to repay all these obligations at compound interest.

Some time ago the Class of 1904 elected, by popular vote, one of their number in whose care they felt, with entire confidence, they could place their guests of Class Day. It is a special pleasure that I am permitted to present to you, First Marshal Currier Lang.

MR. LANG, First Marshal.

MR. PRESIDENT AND FRIENDS:

There are two things that I wish to say to-day in the way of squaring our account before we leave

Tech, which we could not have said at all times during our course. The first concerns the nature of our regard for the Institute.

The four years that we have spent here represent a struggle to keep going that has been light for some, but very real for others, and sometimes this struggle has given us a touch of feeling that is not just to the Institute. It is the feeling that what we have got from this school we have taken by main force, and that the degrees which come to us to-morrow come only because we have left nothing that could be used for an excuse for keeping them from us. Looking at this matter from our present standpoint, we find that our Alma Mater is a little like the real mothers who bring up the sturdiest sons, and we now appreciate that she has known what was best for us at times when we thought she was hard. Our stern Mother Institute has held us to the path with a firm hand. We must admit that she has never, from her excess of mother-love, recoiled from causing us pain when we were unwise and made false steps, but she has taught us to be honest and industrious, to play when our work is done, and that our duty must be done even when it is unpleasant. We now appreciate what Technology has given us better than we ever have before.

The other matter is in regard to what Class Day stands for. This is not the day of the man who has been most successful in the work of his course, and in whom the Faculty must officially see the most marked signs of future success. This man may be identical with the man whom every one likes, who is the squarest and most generous friend, and with whom we are most sad to part. In that case it is his day. We intend to consider this Class from an entirely different standpoint than that of mental acquirement. This is a day when it is recognized that the Class has human nature and feeling, whereas the official machinery of the Institute does not take great account of such personal matters. We expect to talk over the things that have affected our emotions in one way or another, and we shall probably get a little fun out of the process.

The speaker whom I am to introduce first is our Class Day Statistician. You all know the old saying that there are three kinds of lies — plain lies, white lies and statistics. I ask you not to take too seriously whatever may be shown by the coming analysis. I take pleasure in introducing Mr. W. H. Eager, Statistician.

MR. EAGER, Statistician.

MR. MARSHAL, FRIENDS:

Statistics. The word itself is perfectly inoffensive. If used in conjunction with other words, as in a sentence, it not only is inoffensive but generally fades into insignificance. Its importance is increased, however, whenever it appears alone. At the head of long columns of figures or in gilded letters upon the bindings of volumes, it stands an invaluable aid to the seeker of facts. Whenever used by a public speaker as a subject for discussion, it is an immediate and likewise instinctive signal to those so unfortunate as to have been caught in the same room in which it is uttered, at an inconvenient distance from the exits, to settle themselves in forlorn resignation upon the softest side of their respective chairs. The sounds which soon follow, emanating from various corners of the room at spasmodic intervals, first a snort, then a wheeze and a sigh of despair, testifying vividly to the popularity of statistics. Now, if you will all slide yourselves down into those most comfortable chairs, we will listen together for the first of those sonorous testimonials.

The compiling of statistics involves a deal of labor. Four years at the Institute have taught us many truths and maxims. Never do to-day that which can just as well be done to-morrow, and not even then if there is a possibility of getting some one to do it for you.

Your Statistician is an ardent believer in this good old maxim. I spent one whole week putting off till to-morrow that which I didn't want to do to-day, and then ended in having you do my work for me. The process was this: The printing office turned out the questions; Mr. Powers addressed the envelopes, you answered the questions, made the statistics, and here they are.

(The results obtained from the statistic blanks followed.)

Mr. Lang here introduced Mr. M. L. Emerson, Orator.

MR. EMERSON, Orator.

MR. MARSHAL, FRIENDS:

To-day we may for the last time call ourselves undergraduates. We are on the eve of our Commencement, or, as we prefer to call it, our Graduation, our promotion into Life's work. To-morrow marks for us the end of the work of four years, during which we have given our best thought and energy to this Institute. We are now, as it were, on the threshold, and it may be interesting to pause for a moment to look back over our last four years of study, and to draw, if possible, some conclusions.

Our aim here has been a technical education — technical because it is an education toward definite ends. At the close of our four years' training we are now ready to commence our apprenticeships in our chosen professions. Are we satisfied so far, or do we wish we had been trained differently?

Scientific education was established as a protest against college education founded upon the classics. It represented a radical departure in lines of

thought, having, as it did, for its basis, scientific truths, unhampered by old traditions. Its introduction shows that there was felt to be a weakness in college education of that day — a conviction that it had not kept pace with the progress of human thought. The need was felt for an institution in which could be obtained training better adapted to modern conditions. The result was the founding of this Institute.

It was only natural that in the beginning of this modern scientific method of training, the pendulum should swing to the opposite extreme, and that good as well as bad points of classical education should be omitted. The result is that scientific education is even now criticised for being concerned wholly with the industrial and not at all with the academic world. The graduate of a technical school is charged with intellectual narrowness, in that he throws himself so earnestly into his own chosen profession that his liking for philosophy, literature and art is largely lost.

Such criticism is undoubtedly deserved, though less at the present time than in the past. No one can appreciate the narrowness of a scientific course more clearly than one who has spent four years so busily engrossed in work that the so-called culture studies and pleasures have, of necessity, been largely neglected.

This tendency toward narrowness is the great lack in our education. It is fully realized, and all leading scientific schools are endeavoring to make a technical education a broad education. We know from personal experience what a difficult problem this is, and how hard it is to do justice to the courses in literature, history and economics, given in connection with our professional work. We fully appreciate the lack of roundness in our education; and yet, looking backward over our four years of study, it is difficult to see what changes could be made.

Such being the case, we must analyze ourselves as we are. First of all, a man in a technical school has a great advantage, in that he must of necessity work with some fixed purpose toward some definite end. He cannot dabble long without being lost. System is therefore necessary, and must be carried out in training. The strength which comes from this training is the most valuable possession which we take from here.

We are to be engineers. Our chief — President Pritchett — has defined an engineer as "one who solves practical questions by scientific methods;" he might have said, "one who solves practical questions by practical methods," for the graduate of a technical school should be a practical man in the true sense of the word — a trained man, who combines theory and practice.

As engineers we take upon ourselves new duties and new responsibilities. Society has a right to expect more from trained than untrained men. Our obligations are therefore greater, not less, than those of other citizens. We shall naturally develop and grow in the line of our professional work. Our danger lies in the fact that we shall be likely to confine ourselves too closely to that narrow field.

This is the weakness against which we must guard. We must realize that to be equal to all emergencies we must have breadth. We must be men, not machines. We have not had a liberal education, but we have been so trained that now it remains solely with ourselves to use this training to develop into broad, liberal men.

Perhaps many of us wish at this time that we might have combined our technical training with a college course; that it had been possible to take professional studies as graduate work. Such an education is surely an ideal one. This, however, has been impossible to most of us, and it is, of course, a question whether such a training would, for the average man, be as practical as it is ideal.

This, then, is the position in which we stand. We are trained men. We lack neither earnestness nor enthusiasm. Our danger lies in not fully realizing that we have of necessity been confined to a narrow field during our past four years.

We now have to make ourselves. It is our duty to get into the broad, general questions of the day. We have no right to remain negative. We have no right to stand aside and condemn. Society has a right to expect us, in addition to our professional work, to act, to throw our influence, our whole selves, for truth, for cleanliness, and for good government.

If we do our duty here, we cannot remain narrow. We must acquire breadth. By so doing we shall grow true men, true to our profession, and true to this institution from which we graduate to-morrow, the largest class in its history.

Mr. Lang here introduced the Presentation Orator, Mr. L. G. Bouscaren.

MR. BOUSCAREN, Presentation Orator.

MR. MARSHAL, LADIES AND GENTLEMEN:

With the silver tones of an orator still echoing from these walls, can you blame me if I shiver at the thought that this last effort of the Class is put down on the program as an oration? Ladies and gentlemen, you have heard one orator — you will hear no other to-day. We have, as you perhaps already suspect, finished our four years at the Institute; we have fulfilled the requirements, we have gone through, as others have done before us. As Freshmen we inhaled all the foul odors that the chemical laboratory could furnish and then asked for more. As Sophomores we sat in this very hall and saw Professor

Currier, that thoroughbred from Kentucky, gallop through the history of Europe. As Juniors we became familiar with that dear little sixth letter of the alphabet. As Seniors we prepared and published a new set of notes, entitled, "How to Get Ahead of the Faculty." So we are ready to receive our reward. We will do so to-morrow; we sincerely hope you will all be there.

You know that among the heavenly bodies there are always one or two bright stars, before whose overpowering light other stars twinkle pale and feeble. The Class of 1904 is not a heavenly body; but it is like the heavenly bodies in this respect. There are a few who are head and shoulders above the rest of us; high above the common herd they stand in excellence. I appeal to your sense of justice; is it right that these few be allowed to leave without some special reward for what they have done? I hear the consciences of twelve hundred just people answer: "No, give every man his due, and let the names of the few valiant ones be written in letters of gold upon the walls of the Hall of Fame."

Now, I will ask you, men of the roll of honor, as your names are called, to come up and stand here where every one can see you, and receive the reward of your labors.

The presentation of various appropriate articles followed, and a handsome cup was presented to the most distinguished member of the Class of 1904 — Dr. Henry S. Pritchett.

Mr. Lang here made a brief address, concluding the ceremonies.

Commencement Day.

The exercises of graduation took place on June 7, in Huntington Hall. The theses were read in the following order:

CIVIL ENGINEERING.

Arthur Raymond Holbrook. A Test to Determine the Shearing Strength of Mortar and Concrete.

MECHANICAL ENGINEERING.

William Leslie Doten. Tests on Concrete Columns Re-enforced with Steel Rods.

MINING ENGINEERING.

Waldron Page Schumacher. The Concentration of a Copper Sulphide Ore from Virginia.

ARCHITECTURE.

Henry Woodbury Rowe. A Design for a Columbarium for a Large Cemetery.

CHEMISTRY.

Lyman Murphy Bourne, M.Sc. A Study of an Enzyme Contained in the Seeds of the Castor Bean.

ELECTRICAL ENGINEERING.

Byron Horace Clingerman, A.B. The Construction and Operation of an Experimental High Tension Transmission Line.

BIOLOGY.

William C. Lounsbury. An Investigation of the Efficiency of Commercial Milk-Pasteurizers.

PHYSICS.

Daniel Frost Comstock. The Effect of Magnetism on Dielectric Capacity.

GENERAL STUDIES.

Melvin Humbert Schwartz. A Study of the Development of Massachusetts Trust Companies.

CHEMICAL ENGINEERING.

Charles Francis Underhill. A Study of the Destructive Distillation of Some American Peats.

SANITARY ENGINEERING.

Henry Philkins Drake. A Study of the Loss of Capacity in a Sewage Filter.

NAVAL ARCHITECTURE.

George Edwin Atkins. Tests on the Auxiliary Engines of the Steamship "Nantucket."

LIST OF GRADUATES.

The Faculty have voted to confer the degree of Master of Science on:

George Raymond Ainsworth, S.B., Andrew Randall Cobb, S.B., William Burder Ferguson, Jr., Raymond Haskell, S.B., Austin Dickinson Jenkins, S.B., Philip John Kearny, S.B., Waldemar Rudolf Kremer, William McEntee, Herbert Morley Morley, B.S., S.B., Charles Frank Sammet, Horace Gardner Simpson, S.B., John Armistead Spilman.

The degree of Bachelor of Science has been conferred on:

COURSE I., CIVIL AND TYPOGRAPHICAL ENGINEERING.

Edwin Francis Allbright, Albert Wilson Bee, Jr., Frederic Anthony Biggi, Llewellyn Bixby, B.L., Bernard Blum, William Walter Cronin, John Earl Cunningham, Frank Howard Davis, Merton Leslie Emerson, Charles James Griffin, Richard King Hale A.B., Richard Gardner Hartshorne, Hiram Augustus Hill, Arthur Raymond Holbrook, Lewis Thomas Howard, Natt Madison Johnson, William Arthur Kemper, Harry Stillman Kendall, William Howard Koppelman, A.B., Currier Lang, Harry Levine, Fred Knights Merriman, William Donaldson Murray, A.B., Clarence Adkins Neal, Rolf Raymond Newman, Arthur Peabody Porter, John Wilson Roland, B.A., Frank Joseph Sevory, Edgar Field Smith, A.B., Edward Everett Stetson, David Sutton, B.S., Oscar Gowen Thurlow, Albert Pierce Weymouth, Jules Edward White.

COURSE II., MECHANICAL ENGINEERING.

Perrie Morgan Arnold, Charles Frederic Barrett, Herman Otto Blatt, Stephen Lawrence Bradley, Francis James Carty, Maurice Walter Carty, Harry Herman Cerf, Willard Dalrymple Chandler, Ernest Lowell Clifford, Allan Seymour Courtney, Walter Louis Cronin, Joseph Warren Crowell, Myron Wilkinson Dole, William Leslie Doten, Clifton Clark Easterbrooks, William Hendrik Edgecombe, William Archibald Evans, Cyrus Yale Ferris, Julius Lawrence Hecht, Everett Osgood Hiller, Amasa Maynard Holcombe, Addison Francis Holmes, Edwin Rowland Humphrey, Ralph Osborne Ingram, Joseph Augustus Keenan, Carl King, George Eastman Libbey, James Lawrence Lyon, John Delaney McQuaid, Edward Harris Metcalf, A.B., August William Munster, Arthur Wellington O'Connor, Lee Phillips, Fred Merton Pierce, William Frederick Rech, Edward Farnum Rockwood, Harry Tebbetts Rollins, Ernest Louis Rupf, Calvin Richards Sheafe, Herman Ellis Thompson, Edwin Pool Tripp, Winfred DeWitt Vosbury, Reginald Andrew Wentworth, Emery J. Wilson, A.B., Edwin Thomas Wood.

COURSE III., MINING ENGINEERING AND METALLURGY.

Ralph Emerson Adams, Albert Heber Bailey Arnold, George Albert Barnaby, George Martin Bates, William Brenton Boggs, Moses Brown, Jr., John Ford Card, Clem Clare Carhart, Roy Ernest Dimock, Walter Dalton Estes, A.B., George Ralph Gaenslen, Lewis Goode Gillett, Ph.B., Walter Elbridge Hadley, Charles Ashley Hardy, A.B., George Bates Harrington, B.S., Carle Reed Hayward, Reginald Hazeltine, Elmer Allen Holbrook, Frederick Waters Horton, Mark Graham Magnuson, Gyula Bennett Manson, Hubert Merryweather, Harry Fordham Noyes, Rufus Cook Reed, Guy Crosby Riddell, Waldron Page Schumacher, John Whitman Shaw, William Waldo Trowbridge, Fremont Nelson Turgeon, Ralph Brown Williams.

COURSE IV., ARCHITECTURE.

James McFarlan Baker, George Wright Briggs, Franklin Murphy Chace, Lewis Cutler Clarke, Jr., Miss Eliza Codd, Miss Linda Susan Fraser, Friederich Ernst Giesecke, M.E., Moise Herbert Goldstein, B.E., George Garfield Hall, Andrew Hopewell Hepburn, Cyrus Pierce Howes, Alfred Henry Jacobs, George Merrill Magee, Frederic Nickerson, Alexander Webster Richards, Miss Frances Ropes, Henry Woodbury Rowe, Leon Hills Smith, George Riddell Spalding, Theodore William Steidemann, Omar Stephen Swenson, Robert Edward Lee Taylor, B.A., Harrison Allan Whitney, Oliver Martin Wiard, B.A., Lewis Gamaliel Wilson, A.B.

COURSE V., CHEMISTRY.

Miss Edna Greenwood Bailey, Kenneth Michael Baum, Lyman Murphy Bourne, M.Sc., Arthur Caldwell Downes, William Wheeler Duncan, B.A., Frederick William Farrell, Robert Faulkner, William Duncan Lynch, Marquis Edgar Mason, Robert Stanley Phillips, B.S., Walter Philip Regestien, Stanislaus Skowronski, Arthur Ditson Smith, Miss Florence Louise Wetherbee, Edward Wallace White.

COURSE VI., ELECTRICAL ENGINEERING.

John Winfrid Ager, B.S., Roland Hunnewell Ballou, William Perry Bentley, B.S., Louis Henri Gustave Bouscaren, Jr., A.B., Byron Horace Clingerman, A.B., Henry Harrison Dudley, William Hosmer Eager, Charles Wickersham Elmer, David Elwell, Neil Davis Emerson, Albert Clark Ferry, Grant Ford, B.S., Don Loomis Galusha, Selby Haar, Humphrey Matthew Haley, Joseph Allen Haraden, Henry Keene Hooker, George Karl Kaiser, Andrew Otterson Miller, Joseph Crawford Nyce, Robert Palmer, Karl Ernst Peiler, Roland Ball Pendergast, Robert Morris Phinney, John Bernard Rapier, B.S., Lester Asa Russell, John Royal Sanborn, Henry Warren Stevens, Richard Stresau, Philip Starr Sweetser, William Newman Todd, Sidney George Ward, B.S., William Gordon Howard Whitaker, Jr., Walter Whitmore.

COURSE VII., BIOLOGY.

Miss Katherine Dexter, William C. Lounsbury, George Edward Willcomb.

COURSE VIII., PHYSICS.

John Samuel Bridges, Jr., Charles Reed Cary, B.S., Daniel Frost Comstock, Will Ransom Crowell, Guy Warner Eastman, Walter Josiah Gill, Jr., Herbert Thomas Kalmus, Roy Davis Mailey, Harry Hampton Needham, Eliot Wright Niles, Henry Kneeland Richardson, Hirsu Shapira.

COURSE IX., GENERAL STUDIES.

Joseph Kittredge Elliot, Dennie Kelley Keller, Edward Francis Parker, Jr., Alfred Peabody, Melvin Humbert Schwartz, Robert Browning Sosman, B.Sc.

COURSE X., CHEMICAL ENGINEERING.

Arthur Warren Bartlett, Alfred Worcester Burnham, Joseph Bernard Finnegan, Charles Rogerson Haynes, Charles Hoy, Charles Francis Underhill, Arthur Cutts Willard.

COURSE XI., SANITARY ENGINEERING.

Henry Philkins Drake, Halsey French, Ph.B.

COURSE XII., GEOLOGY.

Irving Elwood Adams.

COURSE XIII., NAVAL ARCHITECTURE.

George Edwin Atkins, Ralph Hubert Baker, Calvin Perry Bascom, James Swasey Currier, Charles Joseph Emerson, Austin Young Hoy, A.B., Alpheus Crosby Lyon, B.S., Ambrose Moody Merrill, Robert Brooks Morse, A.B., George Hardy Powell, Rowland Greenville Rice, Arthur Osborne Roberts, Edward Candee Scofield, Norman Leslie Snow, Ph.B., Charles Leonard Steinrok, Howard Leslie Stevens, Grant Sterne Taylor.

Tech Show, 1904.

"Simon Pure Brass."

FINANCIAL STATEMENT.

Total receipts to date		$4,099.13
EXPENSES.		
Printing	$49.45	
Poster design	25.00	
Stamps	44.61	
Train to Malden	25.00	
Posters, score music, lunch at theatre	299.50	
Malden Auditorium	200.00	
Advertising	14.00	
Stage hands	23.00	
Hollis St. Theatre	400.00	
John Coleman, Mrs. Walker, G. L. Tracy, John Mullaly, lighting and carpentry	728.91	
Stenographer to date	30.50	
Show dinner	75.00	
Lunch at Union	34.00	
Malden Orchestra	77.00	
Raymond (costumes)	380.00	
Damage to Hollis St. Theatre	8.25	
Printing programmes	289.00	
Accompanists	70.00	
Wigs	192.40	
Account book	.40	
Man for posters	8.00	
Mr. Powers	1.26	
Office boy	2.00	
Refunded	12.50	
Carting	12.00	
Major Briggs	25.00	
Carting	5.00	
Cuts	2.75	
Boy at Malden	1.00	
Jordan Marsh Co. (tub)	1.10	
Personnel of Staff, including car fares, telephone, R.R. tickets, and mess	134.27	
	$3,190.90	
Already turned over	500.00	
	$3,690.90	

Total receipts	$4,099.13	
Total expenses	3,690.00	
	$408.23	
Turned over	500.00	$908.23
ASSETS.		
Advertising	$120.00	
Score money	16.00	
	$136.00	
LIABILITIES.		
Printing	17.60	
Stenographer	10.00	
Music	77.00	
	$104.60	31.40
Total profits		$939.63

The Cabot Medals for Improvement in Physical Development.

The Cabot medals for improvement in physical development have been awarded for the year 1903–04 to the following students: J. P. Stow Jr., '07; F. B. Poole, '05; J. C. Damon, '04.

Those receiving honorable mention are: E. T. Henius, '06; V. H. Paquet, '05; E. M. Graham, '05; W. B. Boggs, '05; P. J. Ralph, '05.

The medal is of bronze, three inches in diameter, and was designed by Mr. Henry H. Kitson, the noted sculptor. On the face of the medal is the figure of an athlete holding in his right hand a winged victory bearing a laurel wreath, and in his left hand a palm branch. On the reverse of the medal, between two flaming torches, is a miniature of the Rogers Building, with the following inscription underneath:

DEPARTMENT OF
PHYSICAL TRAINING
MASSACHUSETTS
INSTITUTE OF
TECHNOLOGY.

The medal is very fine in design and workmanship, and is much admired and praised by all who see it.

It may be of interest to give here a brief history of the Cabot prizes. Mr. Samuel Cabot, a member of the Corporation, offered in 1900 medals for students who, during the school year, showed the greatest gain in physical development. It was the donor's desire to impress the students with the value of physical training, and to awaken an interest in gymnasium work. To this end, particular emphasis was laid on the fact, that the medal was not to be given for greatest strength, but to the students making the most noticeable improvement in physical development through regular attendance at the gymnasium. The students of the architectural department were asked to submit designs for the medals, and prizes were offered for the three most suitable drawings.

In May, 1901, the Committee on Award of the Cabot Prizes recommended:

1. That the prizes be offered at the beginning of each school year to those students who, in the judgment of a committee appointed by the president, have made marked improvement from attention to physical training during the year.

2. That these prizes consist of bronze medals, which shall be known as the Cabot Medals for Improvement in Physical Training, and that no distinction of rank be made in awarding them.

3. That the number to be awarded each year be left to the discretion of the Committee of Award, and be determined by the number of men whom the committee shall consider to have made sufficient physical improvement to entitle them to the honor.

The first award of bronze medals was made in 1901 to H. B. Pulsifer, Richard Shoal, G. D. Wilson, W. A. Kemper, B. D. Solomon.

Since then the awards have been as follows: In 1902, L. W. Adams, J. F. Ancona, G. H. Clapp, W. C. Phalen, J. B. Whitmore. Honorable mention: L. E. Edes, H. Eisele, L. E. Ovington, F. B. Poole, W. N. Taylor, G. D. Wilson.

In 1903, awards to E. F. Parker, Jr., L. F. Buell, W. N. Munroe, R. G. Kennedy, G. K. Kaiser. Honorable mention: E. B. Rowe, J. F. Ancona, R. P. Stebbins, E. M. Smith, H. S. Wilkins.

It is to be regretted that the delay in the arrival of the die from Paris has prevented the presentation of the medals until this year.

The medals will be on exhibition in the autumn, and the committee hopes that their intrinsic worth and the value to the student of the development for which they stand will arouse a widespread and active interest among the undergraduates.

GEORGE V. WENDELL,
Chairman of Committee on Awards, 1904.

The Worcester Meet.

Technology was not so fortunate at Worcester this year as last, as we were only able to take fifth place, where last year we pressed Williams closely for second. Our team was handicapped by the absence of Captain Curtis, and although our men did their best throughout the meet, they were beaten out by the men from Amherst, Dartmouth, Williams, and Brown, who took the first four places in the order mentioned.

The preliminary heats in the dashes, hurdles, shot-put, discus, and hammer-throw, took place on Friday, May 20, and the following Tech men qualified: Le B. Turner, E. P. Noyes, C. R. Haynes, H. L. Williams, W. M. Van Amringe, W. J. Knapp, W. B. Boggs. In addition to the above, the following men competed on Saturday: E. L. Wilson, M. A. Coe, R. D. Farrington, G. H. Chapman, G. D. W. Marcy, E. H. Lorenz, R. H. Burke.

Amherst took first place easily with $43\frac{1}{3}$ points. The contest for second, between Dartmouth and Williams, was very close, and was only decided by the last event, the pole vault. Hazen of Dartmouth succeeded in winning from Peabody of Williams, giving his college 28 points to $27\frac{1}{2}$ for Williams. Brown was fourth with 17 points, Tech fifth with $16\frac{1}{2}$. Bowdoin, Tufts, and Wesleyan followed with 13, 5, and $3\frac{2}{3}$ points, respectively.

SUMMARY.

100-yard dash — Won by G. L. Swasey, Dartmouth; H. L. Gutterson, Williams, 2d; W. B. Boggs, M. I. T., 3d; F. L. Thompson, Amherst, 4th. Time, $10\frac{2}{5}$ seconds.

220-yard dash — Won by G. L. Swasey, Dartmouth; E. E. Orrell, Amherst, 2d; F. L. Thompson, Amherst, 3d; E. C. Bates, Bowdoin, 4th. Time, $22\frac{4}{5}$ seconds.

440-yard dash — Won by E. E. Orrell, Amherst; H. E. Taylor, Amherst, 2d; S. D. Warner, Williams, 3d; L. D. H. Weld, Bowdoin, 4th. Time, $51\frac{1}{5}$ seconds.

880-yard run — Won by H. E. Taylor, Amherst; E. L. Wilson, M. I. T., 2d; W. A. Newell, Williams, 3d; F. French, Dartmouth, 4th. Time, 2 minutes 1⅘ seconds.

1-mile run — Won by R. D. Tucker, Brown; C. H. Campbell, Dartmouth, 2d; G. H. Chapman, M. I. T., 3d; J. J. Butler, Williams, 4th. Time, 4 minutes 44 seconds.

2-mile run — Won by R. D. Tucker, Brown; C. P. Seoboria, Tufts, 2d; P. R. Shorey, Bowdoin, 3d; R. H. Burke, M. I. T., 4th. Time, 10 minutes 14⅘ seconds.

120-yard high hurdles — Won by R. G. Leavitt, Williams; E. V. Lewis, Williams, 2d; C. R. Haynes, M. I. T., 3d; J. M. Hubbard, Amherst, 4th. Time, 16⅕ seconds.

220-yard low hurdles — Won by R. G. Leavitt, Williams; W. P. Hubbard, Amherst, 2d; J. M. Hubbard, Amherst, 3d; E. V. Lewis, Williams, 4th. Time, 25⅘ seconds.

Putting 16-lb. shot — Won by R. E. Rollins, Amherst; A. C. Denning, Bowdoin, 2d; F. H. Ehmke, Brown, 3d; F. H. Brown, Dartmouth, 4th. Distance, 43 feet 10½ inches.

Running high jump — Won by H. E. Taylor, Amherst; R. Ernst, Williams, M. W. Bullock, Dartmouth, and R. D. Farrington, M. I. T., tied for 2d. Height, 5 feet 9 inches.

Throwing 16-lb. hammer — Won by A. C. Denning, Bowdoin; R. E. Rollins, Amherst, 2d; W. J. Knapp, M. I. T., 3d; S. N. Patterson, Dartmouth, 4th. Distance, 138 feet 8 inches.

Running broad jump — Won by W. P. Hubbard, Amherst; M. W. Bullock, Dartmouth, 2d; A. Murphy, Tufts, 3d; W. M. Van Amringe, M. I. T., and R. G. Leavitt, Williams, tied for 4th. Distance, 21 feet, 6 inches.

Throwing the discus — Won by F. H. Ehmke, Brown; A. K. Dearborn, Wesleyan, 2d; A. H. Jeffries, Dartmouth, 3d; A. C. Denning, Bowdoin, 4th. Distance, 114 feet 8½ inches.

Pole vault — Won by B. F. Hazen, Dartmouth; W. H. Peabody, Williams, 2d; R. D. Farrington, M. I. T., 3d; J. B. Eyster, Wesleyan, A. Pratt, Amherst, and F. P. Fletcher, Wesleyan, tied for 4th.

THE SCORE.

Events	Colleges: Amherst	Dartmouth	Williams	Brown	M. I. T.	Bowdoin	Tufts	Wesleyan
100-yd. dash	1	5	3		2			
220-yd. dash	5	5				1		
440-yds. dash	5		2			1		
880-yd. run	5	1	2		3			
1-mile run		3	1	5	2			
2-mile run				5	1	2	3	
120-yd. hurdles	1		8		2			
220-yd. hurdles	5		6					
High jump	5	2	2		2			
Broad jump	5	3	½		½		2	
Shot-put	5	1		2		3		
Hammer-throw	3	1			2	5		
Discus		2		5		1		3
Pole vault	½	5	3		2			½
Totals	43½	28	27½	17	16½	13	5	3½

THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY.

A CIRCULAR AND A REPLY.

BOSTON, May 14, 1904.

To the Alumni and former Students, Massachusetts Institute of Technology:

A misunderstanding exists concerning the recent vote passed by the Corporation. We wish to state that we, the undersigned, members of the Corporation, who requested this action, are opposed to any plan looking toward the absorption of the Institute by Harvard University. The vote passed by the Corporation is as follows:

"That the Executive Committee be requested to ascertain whether any arrangement can be made with Harvard University, for a combination of effort in technical education, such as will substantially preserve the organization, control, traditions, and the name of the Massachusetts Institute of Technology."

As signers of this petition, we feel that a consideration of the question at this time is of vital importance to the Institute of Technology.

First. Because Harvard University has just received a bequest probably exceeding the entire endowment of the Institute of Technology, and the provisions of the trust under which this

money is given call for its expenditure for purposes of technical education, which would make it necessary for Harvard University to establish a competing technical school, unless some arrangement for co-operation is entered into.

Second. Because the Institute has been so successful and has developed so rapidly that it has entirely outgrown its present quarters, and some further provision must be made in this respect; and moreover, the present funds available for payment of professors and instructors are inadequate to allow for their proper compensation.

Third. Because the present unsettled condition of this question affects public opinion as to the future of the Institute, and has prevented bequests and donations; and we therefore believe it should be now definitely settled.

HOWARD A. CARSON, Class of '69.
SAMUEL CABOT, Class of '70.
EBEN S. DRAPER, Class of '78.
A. LAWRENCE ROTCH, Class of '84.
JOHN R. FREEMAN, Class of '76.
CHARLES A. STONE, Class of '88.

MR. HOWARD A. CARSON.

Dear Sir: I have received your letter of May 14, directed to the alumni and former students of the Massachusetts Institute of Technology. I feel that a misunderstanding exists among the members of the Corporation, in considering a combination of effort in technical education of the Massachusetts Institute of Technology with Harvard University, as to the true feelings and desires of the great majority of the alumni and former students of the Massachusetts Institute of Technology. I am utterly opposed to any combination of effort in technical education which will ally the Massachusetts Institute of Technology with any other educational institution whatever, and especially any combination with Harvard University which will resemble the present relation between the Lawrence Scientific School, Radcliffe College, or any other school with Harvard University.

I wish it distinctly appreciated that my position is taken with a feeling of the greatest respect for the results of the educational work of Harvard and for her deservedly well-earned reputation. Any combination which will at any time in the future permit any student of the Massachusetts Institute of Technology to feel that he is in any way, shape, or manner, directly or indirectly, connected with Harvard University, will lead to but a temporary advantage to either institution and to a future disadvantage to the industrial world. Each institution has its place, and each, to the present time, has filled it well.

If any change is made in the object of the Massachusetts Institute of Technology it should be to make the Institute the greatest scientific graduate institution in the world, entirely distinct from any other educational institution. By making it a graduate institution the quality and not the quantity of the students would be the object.

My views are shared by so many Technology men that I do not feel that the Corporation has the moral right, if it has the legal right, to make any combination of effort in technical education with any other institution, or to conduct any negotiations looking toward that result, without submitting in a perfectly clear and undisguised manner its proposed action to every former student of the Massachusetts Institute of Technology.

The reputation of any educational institution is due to the time, money, and energy expended by her students before and after graduation. The augmentation of that reputation is due to the support of her sons. Their wishes must be respected if her future success is desired. The great majority of the sons of the Massachusetts Institute of Technology feel that they have been designedly misrepresented in the public press and elsewhere in connection with the present discussion.

The Massachusetts Institute of Technology should, without further quibbling or delay, come out and announce to the public, fairly and

squarely, that it has been definitely settled that she will neither make nor endeavor to make a combination with Harvard University or with any other educational institution, but will endeavor, as heretofore, to graduate only thoroughly equipped men.

As far as concerns the financial question, it should be remembered that the Institute has been in straightened circumstances before; that the presence and overcoming of hardships are necessary to a successful career; that the former students and friends would rally to its financial support if frankly asked.

Although my means are slight, I would willingly deprive myself of the small comforts and luxuries of life which I may now enjoy in order to contribute my share toward the raising of the funds necessary to ensure the Institute a position absolutely independent of any other educational institution. I do not stand alone in this position.

Very truly yours,

(Signed) ANDREW D. FULLER,

Class of '95.

The Harbor Excursion.

To call it an excursion is like calling grand opera a "show," but as the committee was asked to arrange for an excursion, it will be so designated for lack of really proper expression. Ere the faithful shall return to town, however, they shall have seen, heard, and we may say done, marvellous things.

Preparations will be made for about two thousand of our ilk, who will leave on a special steamer at ten o'clock on Wednesday morning, with banners flying and bands playing, and after a sail down the harbor, a landing will be made at Nantasket, where the Atlantic House, with its environs of rocky shore and sandy beach, will be exclusively ours. Here luncheon will be served, and then, when the tocsin has sounded, will follow a program replete with the home-made monkey-shines of four decades of frivolous alumni, bubbling up from the earth, swooping down from the clouds, and wafting in from the sea — the pent-up repressions of forty years in one wild, riotous outburst.

Each class, from '68 to '04, is expected to contribute some impressive stunt, either spectacularly artistic, grotesquely ludicrous, or austerely dignified, for the edification of the elect. Many of the classes have already evolved marvelous acts, which they will present on that occasion.

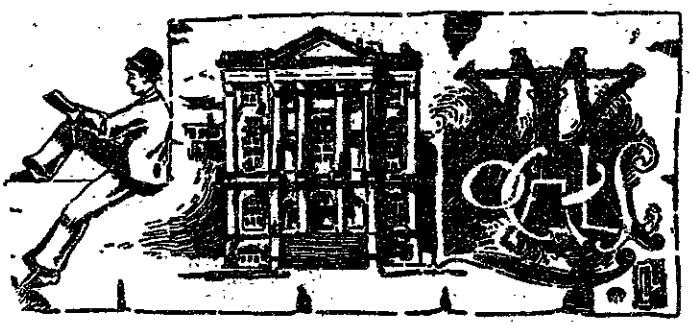
This is a rain or shine affair, for the hotel will accommodate us all, and have room left to do things. The Excursion Committee is at work while you sleep, thinking up incidental divertisements, and will be glad of any suggestion that will add zest to the occasion.

Write "Excursion" in your diary under June 8.

Alumni Dinner.

The speakers at the Alumni Dinner to-morrow evening (June 8) at the Hotel Somerset are to be: Hon. William H. Moody, Secretary of the Navy; Dr. F. W. Gunsaulus, president of the Armour Institute of Technology; Col. T. L. Livermore, for the Corporation, and Prof. A. E. Burton, for the Faculty. Representatives of the alumni will be Mr. J. P. Monroe, '82, president of the Technology Club; Mr. I. W. Litchfield, '85, representing the Northwestern Association; Mr. P. L. Dougherty, '97, of the Washington Association; Mr. Calvin W. Rice, '90, of the Technology Club of New York.

The Executive Committee of the Walker Club has proposed the following men for election at the first meeting of next year: L. B. Turner, '05, S. T. Strickland, '05, G. B. Jones, '05, R. Bingham, '06, L. G. Blodgett, '06, M. A. Coe, '06, H. E. Darling, '06, M. Fallon, '06, C. G. Loring, '06, F. H. Kales, '06, D. G. Robbins, '07 and A. H. Donnewald, '07.



Ben E. Lindsly, '05, has been elected captain of the Track Team for next year.

The Baccalaureate Sermon was delivered to the graduating class in Trinity Church on the afternoon of June 5.

The Glee, Banjo, and Mandolin Clubs gave a very successful final concert in Huntington Hall on the evening of June 4.

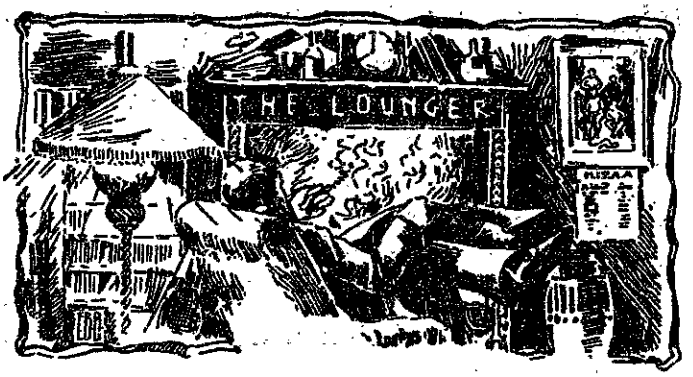
Cups have been presented to E. H. Lorenz, '05; Capt. G. A. Curtis, '04, and to B. E. Lindsly, '05, for records broken this spring.

The following men have lately won their T's: Erskine F. Noyes, Ralph H. Burke, William M. Van Amringe, William J. Knapp, James H. Polhemus.

The correct score in the Dual Meet with Dartmouth was: Dartmouth, 82½, Technology, 71½, since Blythe of Dartmouth and Tetlow of Tech tied for third place in the pole vault, making the score in that event 7½ to 3½, instead of 8 to 3, as was generally credited at the time of the meet.

The competition for the Art Staff of *Technique* '*06*, resulted in the choice of the following men to fill three of the four positions: Frank Logan, G. C. Noble, and J. T. Wrinkle. G. C. Noble was elected art editor. The competition for the remaining position will close July 15. Those desiring to try for this position should communicate with Mr. Noble, at Eau Claire, Wisconsin.

The following members of the Class of 1907 who participated in the baseball games with the 1906 team, have been awarded the right to wear class numerals: A. H. Cenedella, W. H. Sage, Jr., A. P. Fuller, F. B. Barnard, E. H. Packard, C. A. Eaton, R. Tappan, H. B. Hosmer, W. P. Monahan, H. L. Gardner, B. F. Whitney, A. K. Tyler, C. J. Trauerman.



The time has come. The Fates stand ready to cut the thread of THE LOUNGER's story of life, and he shall pass away and remain only a memory. Many things have happened since THE LOUNGER took up his abode at the 'Stute in '88. He has seen the Institute grow from one building, Rogers, to Walker, Eng. A, B, C, Lowell, and Pierce. He has seen the number of professors and students increase many fold. He has seen many changes in student life, and this has come to mean more than all else to THE LOUNGER. He has seen the Walker Memorial projected and has seen the success of the movement. He has seen Tech Union grow out of an intangible nothingness, called Tech spirit. He has seen the Tech Show grow from a minstrel show to a high-class musical comedy, only surpassed by professional performers. He has seen *Technique* develop from a mere pamphlet to a great college annual. He has seen THE TECH grow from a small literary magazine to a weekly newspaper, and now to a tri-weekly. And last, but not least, THE LOUNGER has seen a reunion of Tech men, and he feels that the joy of this celebration will recompense him for the sorrow he feels in passing out of Tech undergraduate life.

* * *

Men of Technology, THE LOUNGER greets you. He also greets your wives and children, for he knows that the Tech man is not guilty of race suicide. You will see many new strange faces and places, but you will also recognize the old familiar haunts which you frequented. Years of absence will not dull the memory of them, but shall make them full of meaning to you. Let us visit some of the places. In Rogers how many of us have climbed up and down the helical stairway to the infernal regions of the mining labs. How many times have we been forced to retreat because some one was going the other way and there was not room for two. How many of us have climbed to the top of Rogers with heavy drawing boards. Lest we forget, how many have been called in to visit the secretary.

Let us next visit Walker. Here inside, the genii, who make terrible smokes and smells. We pause to watch a Freshman making hydrogen, and crash! up goes the generator. No harm done, but lots of

excitement for a few minutes. The Freshman lab. would seem lonesome without an occasional explosion or accident. And we mustn't forget Mrs. Stinson, who has bandaged our cut and burned fingers for many years. We pause to look at the physical laboratories and the wealth of apparatus which they now possess. We recollect our terrible endeavors to find the value of *g*, and remember how we found it equal to — well, we all remember that it was wrong.

Now, let us step over to the Engineering Buildings. We see the immense development of machinery for testing almost anything. We see the splendidly-equipped drawing rooms, the collections of the geology and architectural departments. We see the laboratories of the biology department. And we point with pride to Eng. C and Lowell, as triumphs of rapid construction. Lowell interests us most, as the foremost laboratory of electrical engineering in the country, if not the world. In Eng. C we have the new laboratories of research physical chemistry.

We must not forget Chapel in our pilgrimage. Here the tired and thirsty pause for that inspiration which is furnished by the goodly men in white robes and smiling countenances. No, say what you will, the religious feeling at Tech is as strong as ever, and attendance at Chapel, although not compulsory, is enjoyed by all. If you doubt THE LOUNGER, visit Chapel and you shall see for yourself.

THE LOUNGER cannot pass without a word about our teachers. Step into the lecture rooms and you will hear the same puns, the same jokes, at the same time, in the same places. You will laugh in the same way and your professor will be happy. In this respect Tech has not changed. Time has hallowed these incidents, and besides, Profs are too busy to look up new jokes.

Well, as usual, THE LOUNGER finds the editor-in-chief objecting to his loquacity, and so he must draw his story to a close. THE LOUNGER wishes you all a happy time and joins with you in declaring Tech to be "the best school of all."

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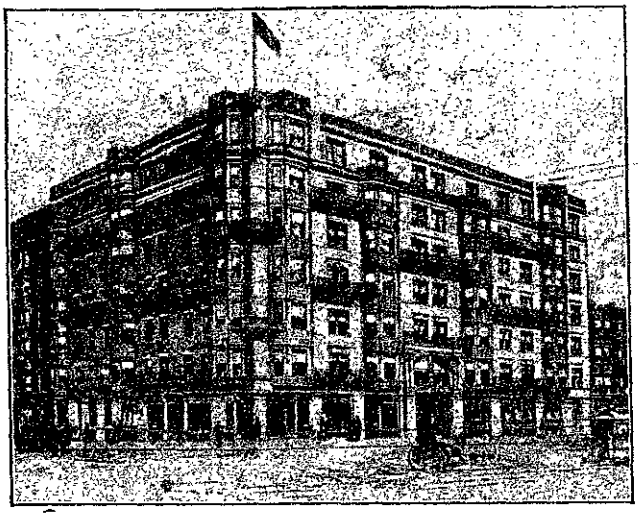

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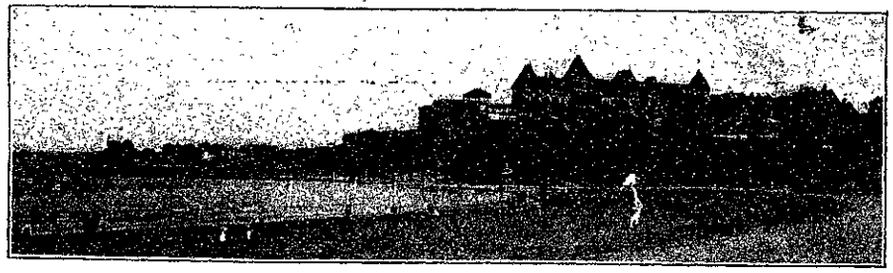

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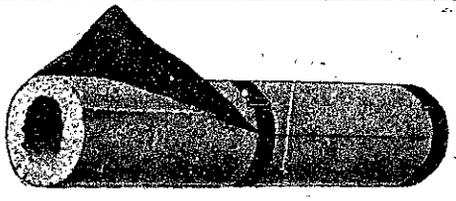

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